

REFERENCES

- Amin, N., Ismail, A.F. and Khairusshima, N. 2007. Effectiveness of uncoated Wc-Co and PCD inserts in end milling of titanium alloy Ti-6Al-4V. *Journal of Material Processing Technology*. **192-193**: 154-157.
- Arumugam, P.U., Malshe, A.P. and Batzer, S.A. 2006. Dry machining of aluminum–silicon alloy using polished CVD diamond-coated cutting tools inserts. *Surface and Coatings Technology*. **200**(11): 3399-3403.
- Attanasio, A., Gefti, M., Gerdini, C. and Remino, C. 2006. Minimal quantity lubrication in turning: Effect on tool wear. *Wear*. **260**: 339-344.
- Cheng, Q., Altenhof, W. and Li Li. 2006. Experimental investigations on the crush behaviour of AA6061-T6 aluminum square tubes with different types of through-hole discontinuities. *Thin-Walled Structures*. **44**: 441–454.
- Chu, E., Xu, Y. 2004. Hydroforming of aluminum extrusion tubes for automotive applications. Part I: buckling, wrinkling and bursting analyses of aluminum tubes. *International Journal of Mechanical Sciences*. **46** (2): 263–283.
- Cselle, T. and Baramani, A. 1995. Today's application and future developments of coating for drills and rotating cutting tools. *Surface and Coating Technology*. **76-77**: 712-718.
- Dang, J.W., Zhang, W.H., Yang, Y. and Wan, M. 2010. Cutting force modeling for flat end milling including bottom edge cutting effect. *International Journal of Machine Tools and Manufacture*. **50**: 986–997.
- Da Silva, R.B., Vieira, J.M., Cardoso, R.N., Carvalho, H.C., Costa, E.S., Machado, A.R., De Ávila, R.F.. 2011. Tool wear analysis in milling of medium carbon steel with coated cemented carbide inserts using different machining lubrication/cooling systems. *Wear*. **271**: 2459– 2465.
- Dhar, N.R., Kamaruzzaman, M. and Ahmed, M. 2006. Effect of minimum quantity lubrication (MQL) on tool wear and surface roughness in turning AISI-4340 steel. *Journal of Materials Processing Technology*. **172**(2): 299-304.
- Dotcheva, M. and Millward, H. 2005. The application of tolerance analysis to the theoretical and experimental evaluation of a CNC corner-milling operation. *Journal of Materials Processing Technology*. **170**(1–2): 284–297.
- Dudzinski, D., Devillez, A., Moufki, A., Larrouquere, D., Zerrouki, V. and Vigneau, J. 2004. Developments towards dry and high speed machining of Inconel 718 alloy. *International Journal of Machine Tools and Manufacture*. **44**: 439–456.
- Ezugwu, E.O., Bonney, J., Fadare, D.A. and Sales, W.F. 2005. Machining nickel-base inconel 718, Alloy with ceramic tools under finishing conditions with various

- coolant supply pressures. *Journal of Materials Processing Technology*. **162–163**: 609–614.
- Fuh, K.H., Hwang, R.M. 1997. A predicted milling force model for high- speed end milling operation. *International Journal of Machine Tools and Manufacture*. **37**(7): 969-979.
- Ghani, J.A., Choudhury, I.A and Masjuki, H.H. 2004a. Wear mechanism of TiN coated carbide and uncoated cermets tools at high cutting speed applications. *Journal of Materials Processing Technology*. **153-154**: 1067-1073.
- Ghani, J.A., Choudhury, I.A and Masjuki, H.H. 2004b. Performance of P10 TiN coated carbide tools when end milling AISI H13 tool steel at high cutting speed. *Journal of Materials Processing Technology*. **153-154**: 1062-1066.
- Itoigawa, F., Childs, T.H.C., Nakamura, T. and Belluco, W. 2006. Effects and mechanisms in minimal quantity lubrication machining of aluminum alloy. *Wear*. **260**: 339-344.
- Jawahir, I.S., Balaji, A.K., Rouch, K.E. and Baker, J.R. 2003. Towards integration of hybrid models for optimized machining performance in intelligent manufacturing systems. *Journal of Materials Processing Technology*. **139**(1-3): 488-498.
- Kadirgama, K., Abou-El-Hossein, K.A., Noor. M.M., Sharma. K.V. and Mohamad, B. 2011. Tool life and wear when machining Hastelloy C-22HS. *Wear*. **270**(4): 258-268.
- Kamata, Y., Obikawa, T. 2007. High speed MQL finish-turning of Inconel 718 with different coated tools. *Journal of Materials Processing Technology*. **192**: 281-286.
- Kang, M.C., Kim, K.H., Shin, S.H., Jang, S.H., Park, J.H. and Kim, C. 2008. Effect of the minimum quantity lubrication in high-speed end-milling of AISI D2 cold-worked die steel (62 HRC) by coated carbide tools. *Surface and Coatings Technology*. **202**: 5621-5624.
- Kincl, M., Turk, S. and Vrecer, F. 2005. Application of experimental design methodology in development and optimization of drug release method. *International Journal Pharm*. **291**: 39–49.
- Kishawy, H.A., Dumitrescu, M., Ng, E.-G., Elbestawi, M.A. 2005. Effect of coolant strategy on tool performance, chip morphology and surface quality during high-speed machining of A356 aluminum alloy. *International Journal of Machine Tools and Manufacture*. **45**: 219–227.
- Klocke, F. and Eisenblatter, G. 1997. Proceedings of the opening session of the dry cutting. *Annals of the CIRP*. **46**(2): 519–526.

- Liao, Y.S., Lin, H.M. and Chen, Y.C 2007. Feasibility study of the minimum quantity lubrication in high-speed end milling of NAK80 hardened steel by coated carbide tool. *International Journal of Machine Tools and Manufacture*. **47**: 1667-1676.
- Lopez de Lacalle, L.N., Lamikiz, A., Sanchez, J.A. and Cabanes, I. 2004. Cutting conditions and tool optimization in the high speed milling of aluminium alloys. *Proceeding of the Institution Mechanical Engineers Part B*. **46** (2): 263-283.
- Lugscheider, E., Knotek, O., Barimani, C., Leyendecker, T., Lemmer, O. and Wenke, R.. 1997. Investigations on Hard Coated Reamers in Different Lubricant Free Cutting Operations. *Surface and Coatings Technology*. **90** (1-2): 172-177.
- Lou, S.J. and Chen, J.C. 1997. In-process surface recognition of a cnc milling machine Using The Fuzzy Nets Method. *Computers and Industrial Engineering*. **33**(1-2): 401-404.
- M. Rahman, A.S. Kumar, M.U. Salam. 2002. Experimental evaluation on the effect minimal quantities of lubricant in milling. *International Journal of Machine Tools and Manufacture*. **42**(5): 235-241.
- Machado, A.R. and Wallbank, J. 1997. The effect of extremely volumes in machining. *Wear*. **210**: 76-82.
- MacMaster, F.J., Chan, K.S., Bergsma, S.C. and Kassner, M.E. 2000. Aluminum alloy 6069 part II: fracture toughness of 6160-T6 and 6069-T6. *Materials Science and Engineering A289*: 54-59
- Moore, D.F. 1975. Principle and application of tribology, pergamon press, oxford.
- Nagallapati, J.K., Bathini, S.R. and Kontakkagari, V.K. 2011. Modeling of machining parameters in CNC end milling using principal component analysis based neural networks. *Innovative Systems Design and Engineering*. **2**(3): 6-7.
- Ravi, S and Pradeep Kumar, M. 2011. Experimental investigations on cryogenic cooling by liquid nitrogen in the end milling of hardened steel. *Cryogenics*. **51**(9): 509-515.
- Robert, R and Richard, B. 1997. Corrosion protection of aluminum alloys by double-strand polyaniline. *Synthetic Metals*. **85**(1-3): 1263-1264.
- Sreejith, P.S. 2008. Machining of 6061 aluminum alloy with MQL, dry and flooded lubricant conditions. *Materials Letters*. **62**: 276-278.
- Su, Y., He, N., Li, L. and Li, X.L. 2006. An experimental investigation of effects of cooling/lubrication conditions on tool wear in high-speed end milling of Ti-6Al-4V. *Wear*. **261**: 760-766.

- Ulutan, D. and Ozel, T. 2011. Machining induced surface integrity in titanium and nickel alloys. *International Journal of Machine Tools and Manufacture*. **51**(3): 250–280.
- Wang, S.M., Chiou, C.H. and Cheng, Y.M. 2004. An improved dynamic cutting force model for end-milling process. *Journal of Materials Processing Technology*. **148**: 317–327.
- Sahin, Y. and Motorcu, A.R. 2005. Surface roughness model for mild steel with coated carbide tool. *Material and Design*. **26**(4): 321–326.
- Yan, L., Yuan, S and Liu, Q. 2012. Influence of minimum quantity lubrication parameters on tool wear and surface roughness in milling of forged steel. *Chinese Journal of Mechanical Engineering*. **25**(3): 419-420.
- Yuan, S.M., Yan, L.T., Liu, W.D and Liu, Q. 2011. Effects of cooling air temperature on cryogenic machining of Ti–6Al–4V alloy. *Journal of Materials Processing Technology*. **211**(3): 356-362.
- Zhang, M.Z., Liu, Y.B. and Zhou, H. 2001. Wear mechanism maps of uncoated HSS tools drilling die-cast aluminum alloy. *Tribology International*. **34**: 727–731.